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New cutting materials for reaming and fine boring

MN reamers mit short delivery times



MN reamers in carbide and cermet versions can be delivered within ten working days. ©MAPAL

MAPAL presents two brand new cutting materials: HP016 and HP018. They are specially designed for the requirements involved in reaming high-alloyed and stainless steels, cast steel and hardened steel. Cutting material HP016 is suitable for all machining operations involving a slightly interrupted cut, while cutting material HP018 is used for a continuous cut. Both are based on a silicon-doped PVD coating on two different varieties of carbides with low cobalt content, making them extremely resistant to wear and offering great dimensional accuracy.

The PVD coating has a fine crystalline microstructure, combining high levels of hardness and ductility. The cutting materials are thermally very stable and offer impressive high-temperature stability and coating adhesion. To create an optimum surface in through bores and blind bores, the PVD

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coating is deposited in the μm range. This ensures the cutting edges retain their sharpness.



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The new HP016 and HP018 cutting materials from MAPAL are specially designed for the requirements involved in reaming high-alloyed and stainless steels, cast steel and hardened steel. ©MAPAL

The new cutting materials are used for market launch in the reamers in the MN series by MAPAL, among others. These tools represent the utmost accuracy and are now also ideally suitable for use in hard reaming applications as well as reaming stainless steel thanks to the new cutting materials. They operate according to the MAPAL principle – with one insert and a guide pad opposite. Depending on the application, the guide pads are made from carbide, cermet or PCD.

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Thanks to optimisations in design, manufacturing and logistics, MAPAL supplies custom-made carbide and cermet reamers within ten working days. ©MAPAL

To reduce delivery times for single-bladed reamers significantly, MAPAL has streamlined the portfolio and is now focusing on eight series of MN reamers. Thanks to optimisations in design, manufacturing and logistics, the company is in a position to supply custom-made carbide and cermet reamers within ten working days. No one has achieved this in the sector until now. In addition to the two new cutting materials, many cutting materials and coatings for all common workpiece materials are available. The inserts can be delivered ex stock with all standard cutting leads, AS, DZ, EK and SZ.

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